

PUBLICATION NUMBER : 2002066375  
PUBLICATION DATE : 05-03-02

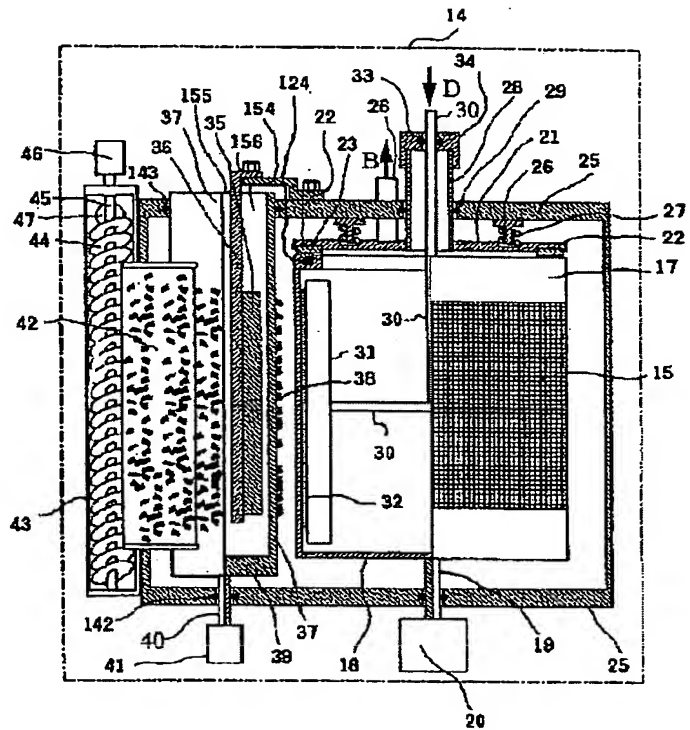
APPLICATION DATE : 31-08-00  
APPLICATION NUMBER : 2000264377

APPLICANT : HITACHI LTD;

INVENTOR : NISHIJIMA NORIYO;

INT.CL. : B03C 1/14 B01D 33/06 B03C 1/00

TITLE : MAGNETIC SEPARATION DEVICE FOR MATERIAL TO BE REMOVED



ABSTRACT : PROBLEM TO BE SOLVED: To provide a magnetic separation device capable of separating magnetic flocs with cleaning water hardly used and forming high density sludge.

SOLUTION: Magnetic floc 38 in water to be treated is stuck on the surface of filter on the outer periphery of a drum and the deposited material is stripped off by a stripping means in the vicinity of the water surface of the water to be treated. Shells 17 and 37 or a belt like moving body, on which magnet 35 is arranged, are arranged in the vicinity of the water surface of the water to be treated and the deposited material is moved on the moving body by magnetic force and moved to the air by the rotation of the moving body. Excess water is released from the deposited material by the gravity to concentrate the deposited material and the deposited material is stripped off by a spatula 42 arranged at a moved place from the moving body to be recovered in a vessel. A capturing device has an atmospheric opening part 155 at least at one end and a magnetic force generating part is supported in non-contact state with the capturing part inside the capturing device by a supporting body 36 penetrating through the atmospheric opening part.

COPYRIGHT: (C)2002,JPO